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(54) Title: **DIAGNOSTIC AND THERAPEUTIC USE OF THE HUMAN DAX- 1 GENE AND PROTEIN FOR NEURODEGENERATIVE DISEASES** ✓

(57) Abstract: The present invention discloses the differential expression of a cytosolic sulfotransferase in specific brain regions of Alzheimer's disease patients. Based on this finding, this invention provides a method for diagnosing or prognosticating a neurodegenerative disease, in particular Alzheimer's disease, in a subject, or for determining whether a subject is at increased risk of developing such a disease. Furthermore, this invention provides therapeutic and prophylactic methods for treating or preventing Alzheimer's disease and related neurodegenerative disorders using a gene coding for DAX-1. A method of screening for modulating agents of neurodegenerative diseases and recombinant animal models are also disclosed.

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